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DATE(S) ISSUED:

03/14/2017

SUBJECT:

Multiple Vulnerabilities in Adobe Flash Player Could Allow for Code Execution (APSB17-07)

OVERVIEW:

Multiple vulnerabilities have been discovered in Adobe Flash Player, the most severe of which could allow for code execution. Adobe Flash Player is a widely distributed multimedia and application player used to enhance the user experience when visiting web pages or reading email messages. Successful exploitation of the most severe of these vulnerabilities could result in the attacker gaining control of the affected system.

THREAT INTELLIGENCE:

There are currently no reports of these vulnerabilities being exploited in the wild.

SYSTEMS AFFECTED:

- Adobe Flash Player Desktop Runtime version 24.0.0.221 and earlier for Windows, Macintosh and Linux
- Adobe Flash Player for Google Chrome versions 24.0.0.221 and earlier for Windows, Macintosh, Linux and Chrome OS
- Adobe Flash Player for Microsoft Edge and Internet Explorer 11 versions 24.0.0.221 and earlier for Windows 10 and 8.1

RISK:

Government:

- Large and medium government entities: **High**
- Small government entities: **Medium**

Businesses:

- Large and medium business entities: **High**
- Small business entities: **Medium**

Home users: Low

TECHNICAL SUMMARY:

Multiple vulnerabilities have been discovered in Adobe Flash Player, the most severe of which could allow for code execution. The vulnerabilities are as follows:

- A buffer overflow vulnerability that could lead to code execution (CVE-2017-2997).

- Multiple memory corruption vulnerabilities that could lead to code execution (CVE-2017-2998, CVE-2017-2999).
- A random number generator vulnerability used for constant blinding that could lead to information disclosure (CVE-2017-3000).
- Multiple use-after-free vulnerabilities that could lead to code execution (CVE-2017-3001, CVE-2017-3002, CVE-2017-3003).

Successful exploitation of the most severe of these vulnerabilities could result in the attacker gaining control of the affected system.

RECOMMENDATIONS:

The following actions should be taken:

- Install the updates provided by Adobe immediately after appropriate testing.
- Run all software as a non-privileged user (one without administrative privileges) to diminish the effects of a successful attack.
- Remind users not to visit websites or follow links provided by unknown or untrusted sources.
- Inform and educate users regarding the threats posed by hypertext links contained in emails or attachments especially from untrusted sources.
- Apply the Principle of Least Privilege to all systems and services.

REFERENCES:

Adobe:

<https://helpx.adobe.com/security/products/flash-player/apsb17-07.html>

CVE:

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-2997>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-2998>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-2999>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-3000>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-3001>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-3002>

<http://www.cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-3003>

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